PreCam Lessons Learned: Software

(1 = LL for DECam, 2 = LL for Season 2, 3 = Potential LL from Season 2)

- SISPI: Requires an "expert" to install/maintain (to say nothing of coding...)
  1. For DECam, this will be 1.0 FTE (or more?) from the SISPI team
  2. For PreCam Season 2, KK is in a better position to fulfill this role
  3. Newer/better SISPI components will be tested, and personnel will be trained better
- PCs: Failover to backup PC failed...
  1. 2. NO EXTERNAL HARD DRIVES ALLOWED NEAR PRECAM/DECAM PCS!
  2. PreCam PCs should have mirrored drives with automatic (cron? yum?) updating
  2. Both PCs should be tested/operated as primary on a regular (weekly?) basis
  3. Hopefully there are no more lessons to be learned in this regard from Season 2
- ObsTac
  1. 2. 3. Moon Position was an issue; Season 2 can give us a handle on the effects for DECam
  1. 2. 3. Improved Survey Progress Visualization tools will be necessary
     For both near-real-time and offline analysis
     PreCam can again serve as a testbed prior to implementation in DES
  1.(?) 2. 3. Modifications to ObsTac may be necessary:
     Customizing Footprints
     Tiling vs. Offset
  1. 2. 3. Nightly reports were tedious and not always sufficient
     Reports should be automated further
     Use SDSS as a template
     Distribution should be resolved: webpage? email?
  1. 2. 3. Time Tracking of Hardware is essential for meta-analysis and optimization of observing
     Should resources be allocated to this for PreCam, or for DECam?
- FITS Headers
  1. These must be (and will be) finalized, both on paper and in silico before DECam First Light
  2. There were a lot of problems defining and implementing Headers, but that work is largely (totally?) done now
  3. Any further modifications (pre-burner?) would become apparent early in Season 2, and will be implemented then.